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NOTICE OF ALLOWANCE AND FEE(S) DUE

23557 7599 11/2/2/2011
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION
PO Box 14/2/5/0
GAINISVILLE. FL 3/26/14

EXAMINER

KELLY, ROBERT M

ART UNIT PAPER NUMBER

1633

DATE MAILED: 11/22/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,509	04/19/2006	Philippe Chatellard	ARS.127	6271

TITLE OF INVENTION: MINIMAL DNA SEQUENCE ACTING AS A CHROMATIN INSULATOR AND ITS USE IN PROTEIN EXPRESSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1740	\$300	\$0	\$2040	02/22/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. ISI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or Fax (5711-273-2885

INSTRUCTIONS. This form should be used for transmitting the ISSUE FEE and PUBLICATION TEE (if required). Blocks 1 through 5 should be completed where appropriate All instruct correspondence including the Baren, advance orders and additional or maintenance fees will make to the current correspondence address as making to the current correspondence address as corrected their increased increased in block 1, by clayed just a most correspondence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees will excited otherwise in block 1, by clayed just a maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence address; and/or (b) indicating a superior *FEE ADDRESS* for maintenance fees under confidence and confidence address and confi

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

23557 7590 11/22/2011
SALIWANCHIK, LLOYD & EISENSCHENK
A PROFESSIONAL ASSOCIATION

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I hereby certify that this Feeds (Yanasmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (\$71) 273-2885, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/576,509	04/19/2006	Philippe Chatellard	ARS.127	6271	
TITLE OF INVENTION: MINIMAL DNA SEQUENCE ACTING AS A CHROMATIN INSULATOR AND ITS USE IN PROTEIN EXPRESSION					

APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1740 \$300 SO \$2040 02/22/2012 EXAMINER ART UNIT CLASS-SUBCLASS KELLY ROBERT M 1633 435-069100 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is Number is required. listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent): 🔲 Individual 🚨 Corporation or other private group entity 🚨 Government 4a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ Issue Fee A check is enclosed. ☐ Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this for Advance Order - # of Copies (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) □ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office

Authorized Signature Date
Typed or printed name
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.41. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case, Any comments on the amount of time you require to complete this form adder suggestions for reducing this borden, should be sent to the Chief Information Offices. U.S. Posteri and Tradermak Office, U.S. Desparing of Complete application, and the complete application of Commence, P.O. Alexandria, Vignatia 22315-1436. Do So 19 Sixol PLES OR COMPLETED 1908-085. Sixol PLES OR COMPLETED 1908-085. Sixol PLES OR COMPLETED 1908-085. Sixol PLES OR COMPLETED 1908-085.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/576,509	04/19/2006	Philippe Chatellard	llippe Chatellard ARS.127 62		
23557 7590 11/22/2011			EXAMINER		
SALIWANCHIK, LLOYD & EISENSCHENK			KELLY, ROBERT M		
A PROFESSIONAL ASSOCIATION					
PO Box 142950			ART UNIT	PAPER NUMBER	
GAINESVILLE, FL 32614			1633		

DATE MAILED: 11/22/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 664 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 664 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom
 of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of
 records may be disclosed to the Department of Justice to determine whether disclosure of these
 records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2004 and 2006. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
	10/576,509	CHATELLARD ET AL.	
Notice of Allowability	Examiner	Art Unit	
	ROBERT M. KELLY	1633	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
 This communication is responsive to <u>11/3/11</u>. 			
 An election was made by the applicant in response to a rest requirement and election have been incorporated into this action. 	riction requirement set forth during th	ne interview on; the restriction	
 The allowed claim(s) is/are <u>77-95</u>. 			
4. ☐ Acknowledgment is made of a claim for foreign priority unde a) ☐ All b) ☐ Some 'o) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified opies of the priority documents have	been received.	<u> </u>	
Copies of the certified copies of the priority do	cuments have been received in this r	national stage application from the	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) Including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
 hereto or 2) to Paper No./Mail Date 			
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the deposit of B attached Examiner's comment regarding REQUIREMENT FC 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/14/10 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P. 6. ☑ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), e <u>11/3/11</u> .	
/ROBERT M KELLY/ Primary Examiner, Art Unit 1633			

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Eisenschenk on 11/3/11.

The application has been amended as follows:

IN THE CLAIMS:

- 1. Please AMEND Claim 77, as follows:
- 77. A method of expressing a gene of interest in a Chinese Hamster Ovary (CHO) cell comprising

culturing a CHO cell comprising a vector under conditions that allow for the expression of said gene of interest,

said vector comprising <u>a promoter</u>, <u>a DNA encoding</u> at least one gene of interest and one or more chromatin insulators consisting of SEQ ID NO: 1 and wherein said CHO cell expresses the gene of interest.

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Please AMEND Claim 78 as follows:

78. The method according to claim 77, wherein the vector further comprises-at

least one DNA element selected from:

a)—an enhancer or a functional expressing enhancing fragment thereof;

b) a promoter domain or a functional expression promoting fragment thereof;

or

e) a DNA sequence coding for one or more polypeptides of interest.

Please AMEND Claim 80 as follows:

80. The method according to claim [[78]]77, wherein the DNA sequence is

eoding forencodes more than one polypeptide of interest through a polycistronic

mRNA.

Please AMEND Claim 82 as follows:

82. The method according to claim [[78]]77, wherein the promoter is selected

from the group consisting of cellular or a viral promoter[[/]], a phage

promoter[[s]], such as-mCMV-IE1, mCMV-IE2, hCMV, SV40, RSV, T7, T3,

and[[or]] a functional expression promoting fragment thereof.

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Please AMEND Claim 83 as follows:

83. The method according to claim [[78]]77, wherein the gene of interest encodes a polypeptide of interest is selected from the group consisting of FSH, LH, CG, TSH, a growth hormone, an interferon, TNF binding protein II, TNF binding protein II, IL-18BP, IL-6, IFNAR1, LIF₂ [[or]]a mutein[[s]], a fragment[[s]] thereof, a functional derivative[[s]] thereof, and a fusion protein[[s]] thereof.

6. Please AMEND Claim 84 as follows:

84. The method according to claim [[78]]77, wherein the <u>gene of interest</u> encodes a polypeptide of interest is selected from the group consisting of EPO, G-CSF, GM-CSF, a chain of a humanized antibody, a cytokine, a coagulation factor, etanercept, tPA, an integrin, [or <u>la</u> mutein[[s]], <u>a</u> fragment[[s]] thereof, <u>a</u> functional derivative[[s]] thereof, and a fusion protein[[s]] thereof.

5. Please AMEND Claim 85 as follows:

85. The method according to claim [[78]]77, wherein the gene of interest encodes a polypeptide of interest is selected from the group consisting of adenosine deaminase (ADA), aminoglycoside phosphotransferase (neo),

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dihydrofolate reductase (DHFR), hygromycin-B-phosphotransferase (HPH), thymidine kinase (tk), xanthine-guanine phosphoribosyltransferase (HPH), multiple drug resistance gene (MDR), ornithine decarboxylase (ODC) [[and]]N-(phosphonacetyl)-L-aspartate resistance (CAD), puromycin acetyltransferase (PAC), galactokinase, human folate receptor, [[or]]and a reduced folate carrier[[s]].

- Please AMEND Claim 86 as follows:
- 86. The method according to claim [[78]]77, wherein the <u>gene of interest encodes a</u> polypeptide of interest is selected from the group consisting of luciferase, green fluorescent protein, alkaline phosphatase, [[and]]horseradish peroxidase, [[or]] and <u>a_combination[[s]]</u> thereof.
 - 7. Please AMEND Claim 87 as follows:
- 87. The method according to claim [[78]]77, wherein one insulator is positioned upstream and one insulator is positioned downstream of the DNA sequence coding for a polypeptide of interestgene of interest.
 - Please AMEND Claim 88 as follows:

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88. The method according to claim [[78]]77, wherein at least two insulators are positioned upstream and downstream of the gene of interesta DNA sequence eoding for a polypeptide of interest, respectively.

- 9. Please AMEND Claim 89 as follows:
- 89. The method according to claim [[78]]77, wherein at least two <u>protein encoding DNA coding</u> sequences are positioned between the insulators.
 - 10. Please AMEND Claim 90 as follows:
- 90. The method according to claim [[78]]89, wherein the at least two coding sequences code for subunits of a multimeric protein.
 - Please AMEND Claim 91 as follows:
- 91. The method according to claim 90, wherein the multimeric protein is a hormone comprising a first subunit that is the alpha chain and a second subunit that is the beta chain of a hormone selected from the group consisting of: human FSH, human LH, human TSH, and human CG.
 - Please AMEND Claim 93 as follows:

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93. The method according to claim 77, wherein said CHO cell simultaneously expresses two or more genes of interest from the vector.

The following is an examiner's statement of reasons for allowance:

Applicant's amendment is now claiming the single insulator and is therefore allowable over the prior art, and the examiner's amendment, agreed to by Applicant, overcomes all other issues. In addition, because no one had delineated in the prior art whether or not the intervening sequences were required to have a particular spacing for binding the proteins properly, similar to other elements, like bacteriophage operator/repressor the spacing was not known whether it would be influenced for its action as an insulator. Hence, the claimed sequence is commensurate with an advancement in the Art.

Claims 77-95 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT M. KELLY whose telephone number is (571)272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/ROBERT M KELLY/ Primary Examiner, Art Unit 1633